

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1006	((oxide or dielectric or insulator or insulating) near4 (high near k or high near dielectric) or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 oxide) near8 (halide or halogen or chlorine or cl or fluorine or f) near8 (reduction or reducing or fga or forming near gas or hydrogen or reduced or metallization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 16:07
L4	465	((oxide or dielectric or insulator or insulating) near2 (high near k or high near dielectric) or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near oxide) near5 (halide or halogen or chlorine or cl or fluorine or f) near5 (reduction or reducing or fga or forming near gas or hydrogen or reduced)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 16:10
L5	13	((oxide or dielectric or insulator or insulating) near2 (high near k or high near dielectric) or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near oxide) near5 (halide or halogen or chlorine or cl or fluorine or f) near5 (removal or removing or elimination or eliminating or removed or eliminated or extraction or extracting or impurity or defect) near5 (reduction or reducing or fga or forming near gas or hydrogen or reduced)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 16:18
S1	677	gate near2 (oxide or dielectric or insulator or insulating) same (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 oxide) same (reduction or reducing or hydrogen near2 gas or hydrogen near2 plasma)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 15:58
S2	165	gate near2 (oxide or dielectric or insulator or insulating) near15 (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 oxide) near15 (reduction or reducing or hydrogen near2 gas or hydrogen near2 plasma)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/22 15:20
S3	20	gate near2 (oxide or dielectric or insulator or insulating) near15 (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 oxide) near15 ((reduction or reducing) near2 (gas or compound or reaction or reacting or chemical) or hydrogen near2 gas or hydrogen near2 plasma)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/22 15:21
S4	20	gate near2 (oxide or dielectric or insulator or insulating) near15 (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 (oxide or dioxide)) near15 ((reduction or reducing) near2 (gas or compound or reaction or reacting or chemical) or hydrogen near2 gas or hydrogen near2 plasma)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/22 15:41
S5	5	("4481229" "6020024" "6110784" "6297107" "6407435" "2002/0064970").PN.	USPAT	OR	ON	2004/10/22 15:29
S6	41	gate near2 (oxide or dielectric or insulator or insulating) near15 (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 (oxide or dioxide or pentoxide or o)) same (remove or removal or removing or removed or extraction or extracting or extracted or extract or expel or eliminate or eliminating or eliminated) near3 (impurities or contaminants or chlorine or cl or halide or halogen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/22 16:08

S7	31	gate near2 (oxide or dielectric or insulator or insulating) near15 (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 (oxide or dioxide or pentoxide or o)) same (remove or removal or removing or removed or extraction or extracting or extracted or extract or expel or eliminate or eliminating or eliminated) near3 (oxygen or o)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/22 16:09
S8	5	(US-20030213975-\$ or US-20040033661-\$ or US-20040185627-\$).did. or (US-6420236-\$ or US-6544906-\$).did.	US-PGPUB; USPAT	OR	ON	2005/01/21 14:00
S9	6360	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near20 (transform\$5 or chemical\$2 near2 reduc\$5 or convert\$3 or convers\$3) near4 (metal)	US-PGPUB; USPAT	OR	ON	2005/01/21 14:03
S10	2596	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near5 ((transform\$5 or chemical\$2 near2 reduc\$5 or convert\$3 or convers\$3) near2 (metal) or (remov\$3 or eliminat\$3) near2 (oxygen))	US-PGPUB; USPAT	OR	ON	2005/01/21 14:04
S11	166	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near5 ((transform\$5 or chemical\$2 near2 reduc\$5 or convert\$3 or convers\$3) near2 (pure near metal) or (remov\$3 or eliminat\$3) near2 (oxygen))	US-PGPUB; USPAT	OR	ON	2005/01/21 14:58
S12	24	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near5 ((transform\$5 or chemical\$2 near2 reduc\$5 or convert\$3 or convers\$3) near2 (elemental or atomic) near (metal or al or zr or hf or yt or ta or ti))	US-PGPUB; USPAT	OR	ON	2005/01/21 15:04
S13	758	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near4 (purification or purifying or purified or purify)	US-PGPUB; USPAT	OR	ON	2005/01/21 15:16
S14	5	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near4 (purification or purifying or purified or purify) and (gate or capacitor) near (dielectric or oxide or insulator or insulating)	US-PGPUB; USPAT	OR	ON	2005/01/21 15:06
S15	1240	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near4 (purity)	US-PGPUB; USPAT	OR	ON	2005/01/21 15:17
S16	70	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near oxide near4 (purity) and (gate or capacitor or high-k) near2 (dielectric or oxide or insulator or insulating)	US-PGPUB; USPAT	OR	ON	2005/01/24 12:08
S17	7	"6121094".pn. "6436777".pn. "6514828".pn. "6617209".pn. "6617210".pn. "20020197790" "20030045080"	US-PGPUB; USPAT	OR	ON	2005/01/24 11:54
S18	1208	438/240.ccls.	US-PGPUB; USPAT	OR	ON	2005/01/24 11:55
S19	606	438/240.ccls. and (oxide or insulator or insulating or dielectric) near8 (oxidizing or oxidation or oxidization or oxidized or oxidize)	US-PGPUB; USPAT	OR	ON	2005/01/24 11:56
S20	741	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near4 (gate or capacitor or high-k) near4 (dielectric or oxide or insulator or insulating) and (oxide) near6 hydrogen	US-PGPUB; USPAT	OR	ON	2005/01/24 12:11
S21	191	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near4 (gate or capacitor or high-k) near4 (dielectric or oxide or insulator or insulating) with hydrogen	US-PGPUB; USPAT	OR	ON	2005/01/24 12:16
S22	53	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near4 (gate or capacitor or high-k) near4 (dielectric or oxide or insulator or insulating) same ((hydrogen or h!) near2 (treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure))	US-PGPUB; USPAT	OR	ON	2005/01/24 15:17

S23	3	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near4 (gate or capacitor or high-k) near4 (dielectric or oxide or insulator or insulating) same ((hydrogen or h!) near2 (treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure))	EPO; JPO	OR	ON	2005/01/24 15:19
S24	1	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near4 (gate or capacitor or high-k) near4 (dielectric or oxide or insulator or insulating) same ((hydrogen or h!) near20 (oxide or oxygen) near2 (vacancy or vacancies))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:26
S25	19	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt or ferroelectric) near8 (gate or capacitor or high-k) near8 (dielectric or oxide or insulator or insulating) and ((hydrogen or h!) near10 (oxide or oxygen) near2 (vacancy or vacancies))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:26
S26	12	("5046043" "5122923" "5434102" "5468684" "5508226" "5519234" "5648114" "5773314" "5825057" "5962069" "6204070" "6326315").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/24 15:28
S27	13	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt or ferroelectric) near8 (gate or capacitor or high-k) near8 (dielectric or oxide or insulator or insulating) and ((hydrogen or h!) near10 (oxide or oxygen) near2 (consumption or consuming or consumed or consume))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:28
S28	20	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt or ferroelectric) near8 (gate or capacitor or high-k) near8 (dielectric or oxide or insulator or insulating) and ((hydrogen or h!) near10 (oxide or oxygen) near2 (recovery or recover\$3 or replenish\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:28
S29	180	438/240.ccls. and (hydrogen or h!) near6 (vacancies or vacant or treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure or purif\$7 or purity)	US-PGPUB; USPAT	OR	ON	2005/01/25 10:54
S30	96	438/240.ccls. and (oxide or insulator or insulating or dielectric or ferroelectric) near10 (hydrogen or h!) near6 (vacancies or vacant or treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure or purif\$7 or purity)	US-PGPUB; USPAT	OR	ON	2005/01/25 11:26
S32	9	438/774.ccls. and (oxide or insulator or insulating or dielectric or ferroelectric) near10 (hydrogen or h!) near6 (vacancies or vacant or treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure or purif\$7 or purity)	US-PGPUB; USPAT	OR	ON	2005/01/25 11:29
S33	15	438/216.ccls. and (oxide or insulator or insulating or dielectric or ferroelectric) near10 (hydrogen or h!) near6 (vacancies or vacant or treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure or purif\$7 or purity)	US-PGPUB; USPAT	OR	ON	2005/01/25 11:35
S34	4	("5966597" "6033963" "6087208" "6087231").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/25 11:33
S35	49	438/287.ccls. and (oxide or insulator or insulating or dielectric or ferroelectric) near10 (hydrogen or h!) near6 (vacancies or vacant or treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure or purif\$7 or purity)	US-PGPUB; USPAT	OR	ON	2005/01/25 15:02
S36	33	438/785.ccls. and (oxide or insulator or insulating or dielectric or ferroelectric) near10 (hydrogen or h!) near6 (vacancies or vacant or treatment or treated or treating or reduction or reducing or conver\$4 or transform\$5 or plasma or exposed or exposing or exposure or purif\$7 or purity)	US-PGPUB; USPAT	OR	ON	2005/01/25 15:04

S37	47	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) near2 (gate) and (oxygen or oxide) near3 (repair or recovery or vacancy)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 10:52
S38	22	"20020019109" "20020019901" "20010034106" "6413386".pn. "6297539".pn. "6387761".pn. "20020072223" "6087231".pn. "6060755".pn. "6014310".pn. "6291366".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 15:41
S39	15	("20010006241" "20010034106" "20020038402" "20030052357" "5046043" "5434102" "5519234" "5648114" "6051858" "6121648" "6188098" "6351004" "6495878" "6541279" "6635528").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/01 16:40
S40	12	("20010042344" "20010051406" "20020004263" "4505028" "6162741" "6214683" "6228752" "6239044" "6287903" "6306698" "6323115" "6362086").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/01 16:46
S41	76	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) near2 (gate) and (hydrogen or h) near4 (reduction or reducing or vacancies or damage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:11
S42	64	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) near2 (gate) and (hydrogen or h) near4 (chlorine or impurities or purification or purifying or purity or cl)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:44
S43	16	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) near2 (gate) and (hydrogen or h or hydride) near8 (reoxidat\$5 or reoxidiz\$5 or re-oxidiz\$5 or re-oxidat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:46
S44	164	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) and (hydrogen or h or hydride) near8 (reoxidat\$5 or reoxidiz\$5 or re-oxidiz\$5 or re-oxidat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:53
S45	50	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) same (reduction or reducing or conversion or converted or converting or reduced or hydrogen or hydride) near4 (metal) near15 (reoxidation or reoxidizing or reoxidized or reoxidize or reoxidization or reoxidation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 14:44
S46	28	(US-20020074581-\$ or US-20020081394-\$ or US-20020098685-\$ or US-20020175358-\$ or US-20030068865-\$ or US-20030213975-\$ or US-20040000687-\$ or US-20040012047-\$ or US-20040033661-\$ or US-20040089920-\$ or US-20040092073-\$ or US-20040132253-\$ or US-20040152340-\$ or US-20040185627-\$ or US-20040262663-\$ or US-20040266117-\$ or US-20050017319-\$).did. or (US-6096597-\$ or US-6140198-\$ or US-6165802-\$ or US-6365450-\$ or US-6420236-\$ or US-6544906-\$ or US-6737341-\$ or US-6743643-\$ or US-6479404-\$ or US-6812490-\$ or US-5776264-\$).did.	US-PGPUB; USPAT	OR	ON	2005/02/02 14:33
S47	44	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) same (hydrogen) near3 (anneal or annealing or annealed or treated or treating or treatment or exposure) near4 (carbon or chlorine or impurity or defect)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 14:52

S48	1	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) near3 gate same (anneal or annealing or annealed) near3 (forming adj gas or fga) adj15 (oxidat\$ or oxidiz\$ or re-oxidiz\$ or re-oxidat\$ or oxygen or oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 14:54
S49	5	(metal or aluminum or titanium or zirconium or hafnium or tantalum or yttrium or al or ti or zr or hf or ta or yt) near (dielectric or oxide or insulator or insulating) near3 gate same (forming adj gas or fga)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 14:55
S50	15	gate near2 (oxide or dielectric or insulator or insulating) same (high near k or high near dielectric or (metal or hafnium of hf or lanthanum or la or zirconium or zr or titanium or ti or tantalum or ta or bst or strontium or yttrium or y or aluminum or al) near2 oxide) same (forming adj gas or fga)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 14:57